



The State of New Hampshire
Department of Environmental Services



AGGREGATED PRECIPITATION DATA for N.H.
DROUGHT MANAGEMENT AREAS

	Actual Rainfall (inches)	Normal Rainfall (inches)	Deviation from Normal (inches)	Percent of Normal
<u>Coastal Drainage:</u> Rockingham, Strafford counties				
four month	13.51	12.88	0.63	105%
six month	22.43	19.32	3.11	116%
nine month	40.16	28.98	11.18	139%
twelve month	58.04	38.92	19.12	149%
<u>Southern Interior:</u> Belknap, Hillsborough, Merrimack counties				
four month	12.19	12.91	-0.72	94%
six month	21.34	19.36	1.98	110%
nine month	39.18	29.04	10.14	135%
twelve month	53.69	39.05	14.63	137%
<u>South Western:</u> Cheshire, Sullivan counties				
four month	11.31	12.80	-1.49	88%
six month	19.93	19.20	0.73	104%
nine month	36.19	28.80	7.39	126%
twelve month	46.29	38.84	7.45	119%
<u>White Mountain:</u> Carroll, Grafton counties				
four month	12.25	11.84	0.41	103%
six month	22.52	17.76	4.76	127%
nine month	39.96	26.64	13.32	150%
twelve month	51.75	35.94	15.81	144%
<u>North Country:</u> Coos county				
four month	12.91	10.88	2.03	119%
six month	22.93	16.32	6.61	141%
nine month	43.16	24.48	18.68	176%
twelve month	54.03	33.00	21.03	164%

four month period : November 2006 - February 2007

six month period : September 2006 - February 2007

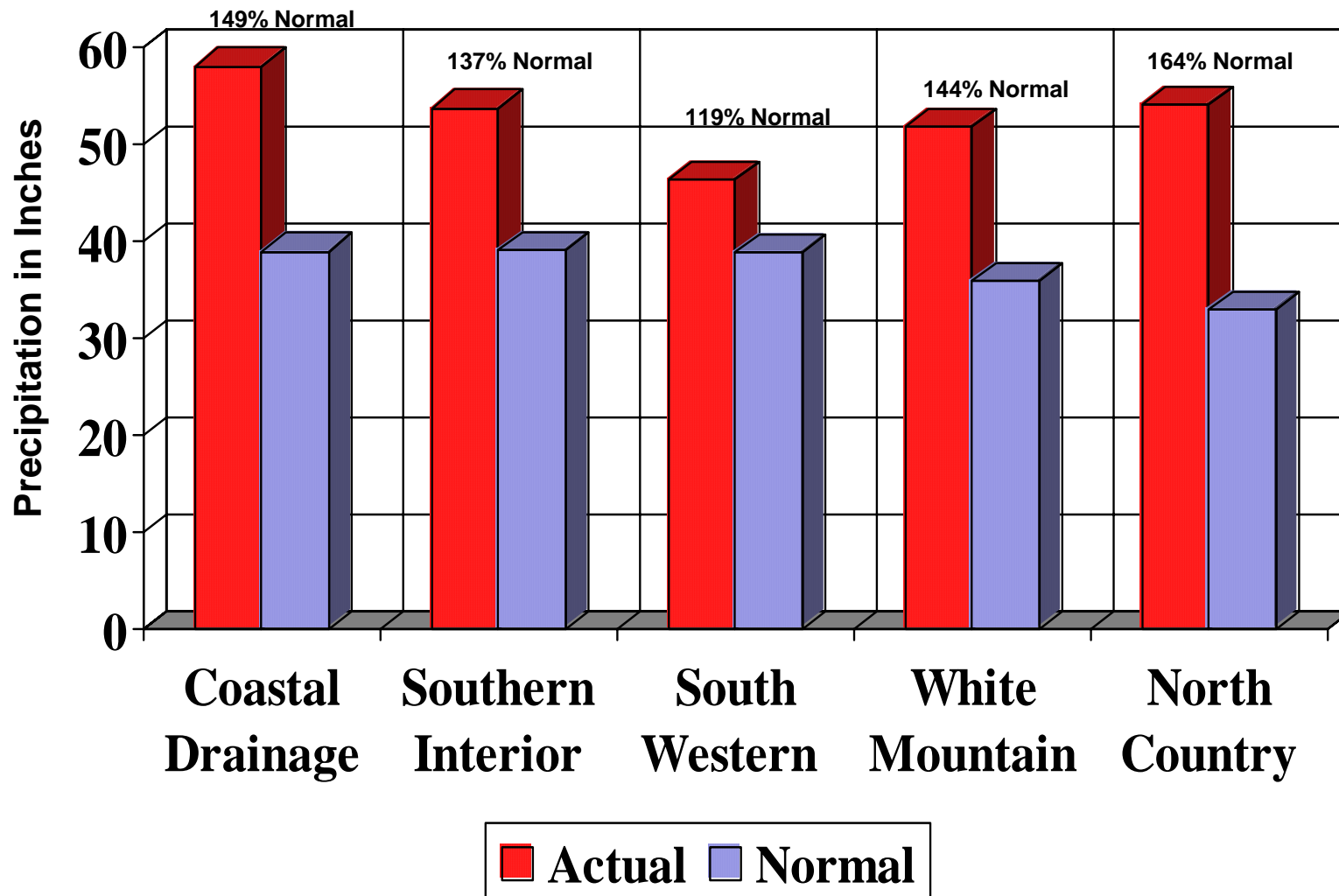
nine month period : June 2006 - February 2007

twelve month period: March 2006 - February 2007

Source: Northeast River Forecast Center, NH Des Dam Bureau

P.O. Box 95, 29 Hazen Drive, Concord, New Hampshire 03302-0095
Telephone: (603) 271-3503 • Fax: (603) 271-7894 • TDD Access: Relay NH 1-800-735-2964
DES Web site: www.des.nh.gov

TWELVE MONTH AGGREGATED PRECIPITATION DATA for N.H. DROUGHT MANAGEMENT AREAS from March 2006 through February 2007





MONTHLY PRECIPITATION DATA FOR N.H COUNTIES

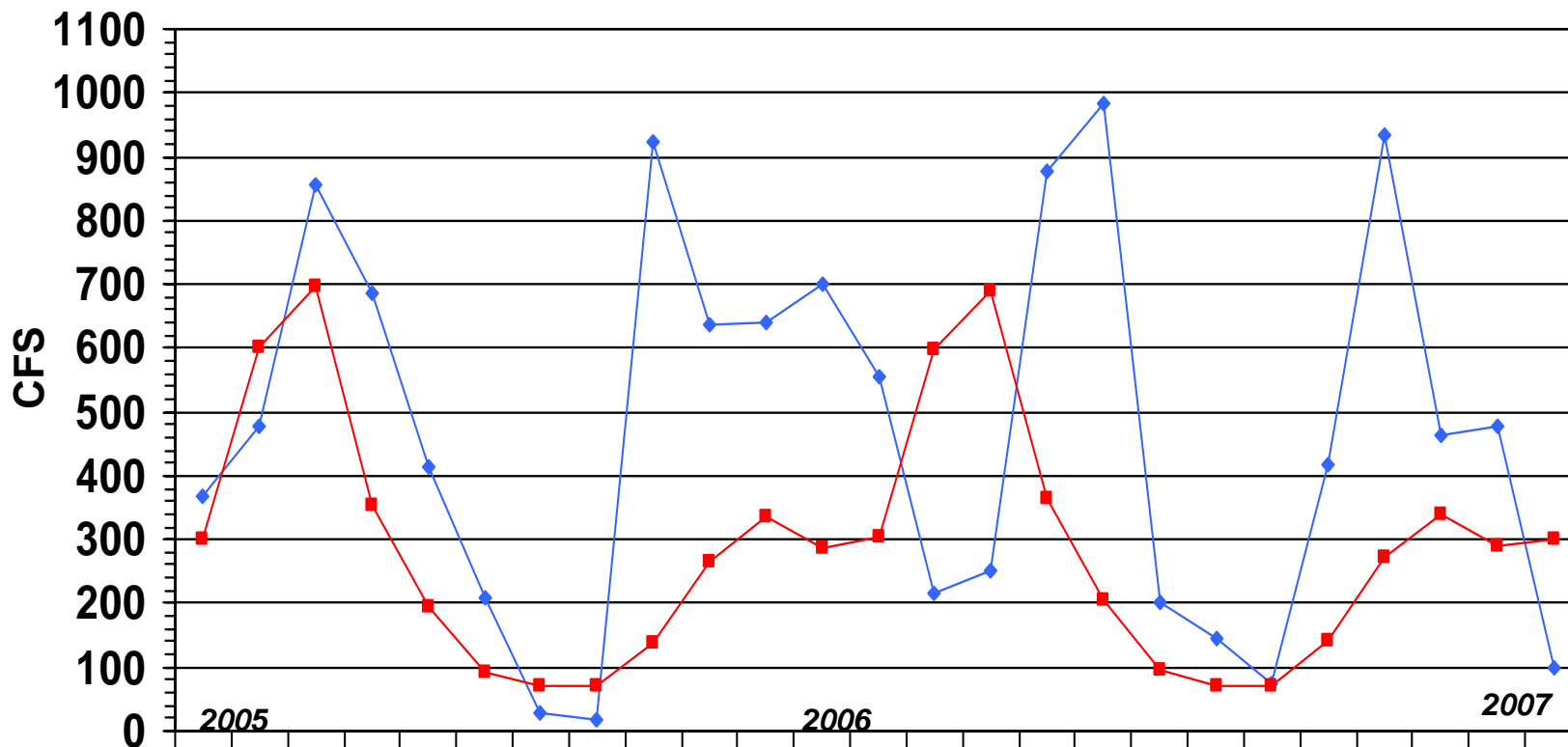
		2006										2007	
		MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB
<u>Coastal drainage</u>													
STRAFFORD	actual	1.25	3.34	12.79	8.67	5.86	3.03	2.52	6.27	5.53	3.60	3.02	1.59
	normal	3.20	3.40	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12
	deviation	-1.95	-0.06	9.67	5.55	2.74	-0.09	-0.60	3.15	2.41	0.48	-0.10	-1.53
ROCKINGHAM	actual	0.91	3.27	14.20	9.25	5.13	3.52	2.61	6.44	5.96	2.84	2.94	1.54
	normal	3.40	3.44	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32
	deviation	-2.49	-0.17	10.88	5.93	1.81	0.20	-0.71	3.12	2.64	-0.48	-0.38	-1.78
Average	actual	1.08	3.31	13.50	8.96	5.50	3.28	2.57	6.36	5.75	3.22	2.98	1.57
	normal	3.30	3.42	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.22
	deviation	-2.22	-0.12	10.28	5.74	2.28	0.06	-0.66	3.14	2.53	0.00	-0.24	-1.66
<u>Southern Interior</u>													
HILLSBOROUGH	actual	0.99	2.66	10.93	9.82	3.98	4.59	2.05	6.87	5.35	2.59	3.08	1.54
	normal	3.88	3.56	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
	deviation	-2.89	-0.90	7.33	6.22	0.38	0.99	-1.55	3.27	1.75	-1.01	-0.52	-2.06
MERRIMACK	actual	1.48	2.95	11.72	9.62	5.19	3.70	2.34	7.76	4.84	3.79	2.93	1.45
	normal	3.40	3.36	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16
	deviation	-1.92	-0.41	8.56	6.46	2.03	0.54	-0.82	4.60	1.68	0.63	-0.23	-1.71
BELKNAP	actual	1.19	2.66	8.95	8.02	5.79	2.81	1.84	6.59	4.54	3.26	2.04	1.15
	normal	2.92	3.24	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92
	deviation	-1.73	-0.58	6.03	5.10	2.87	-0.11	-1.08	3.67	1.62	0.34	-0.88	-1.77
Average	actual	1.22	2.76	10.53	9.15	4.99	3.70	2.08	7.07	4.91	3.21	2.68	1.38
	normal	3.40	3.39	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23
	deviation	-2.18	-0.63	7.31	5.93	1.76	0.47	-1.15	3.85	1.68	-0.01	-0.54	-1.85
<u>South Western</u>													
CHESHIRE	actual	1.13	2.28	5.32	7.22	3.04	3.94	1.81	6.02	3.91	2.39	2.91	1.22
	normal	3.48	3.40	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28
	deviation	-2.35	-1.12	2.04	3.94	-0.24	0.66	-1.47	2.74	0.63	-0.89	-0.37	-2.06
SULLIVAN	actual	1.35	2.85	7.26	9.05	5.19	4.09	2.41	6.99	4.44	2.87	3.24	1.64
	normal	3.36	3.44	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12
	deviation	-2.01	-0.59	4.14	5.93	2.07	0.97	-0.71	3.87	1.32	-0.25	0.12	-1.48
Average	actual	1.24	2.57	6.29	8.14	4.12	4.02	2.11	6.51	4.18	2.63	3.08	1.43
	normal	3.42	3.42	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20
	deviation	-2.18	-0.86	3.09	4.94	0.92	0.82	-1.09	3.31	0.98	-0.57	-0.13	-1.77
<u>White Mountain</u>													
GRAFTON	actual	1.53	2.81	6.87	7.90	5.76	3.97	2.68	7.39	3.81	3.68	2.55	2.18
	normal	3.04	3.24	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92
	deviation	-1.51	-0.43	3.95	4.98	2.84	1.05	-0.24	4.47	0.89	0.76	-0.37	-0.74
CARROLL	actual	1.30	2.84	8.22	7.95	6.33	2.98	2.45	8.02	5.08	3.30	2.31	1.58
	normal	3.08	3.32	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	deviation	-1.78	-0.48	5.22	4.95	3.33	-0.02	-0.55	5.02	2.08	0.30	-0.69	-1.42
Average	actual	1.42	2.83	7.55	7.93	6.05	3.48	2.57	7.71	4.45	3.49	2.43	1.88
	normal	3.06	3.28	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96
	deviation	-1.65	-0.46	4.59	4.97	3.09	0.52	-0.40	4.75	1.49	0.53	-0.53	-1.08
<u>North Country</u>													
COOS	actual	1.75	3.02	6.10	7.96	4.80	7.47	2.17	7.85	3.23	3.93	3.17	2.58
	normal	2.76	3.04	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72
	deviation	-1.01	-0.02	3.38	5.24	2.08	4.75	-0.55	5.13	0.51	1.21	0.45	-0.14

LAMPREY RIVER near NEWMARKET NH

Gage# 01073500



MONTHLY MEAN FLOW COMPARED TO MEAN OF MONTHLY FLOWS



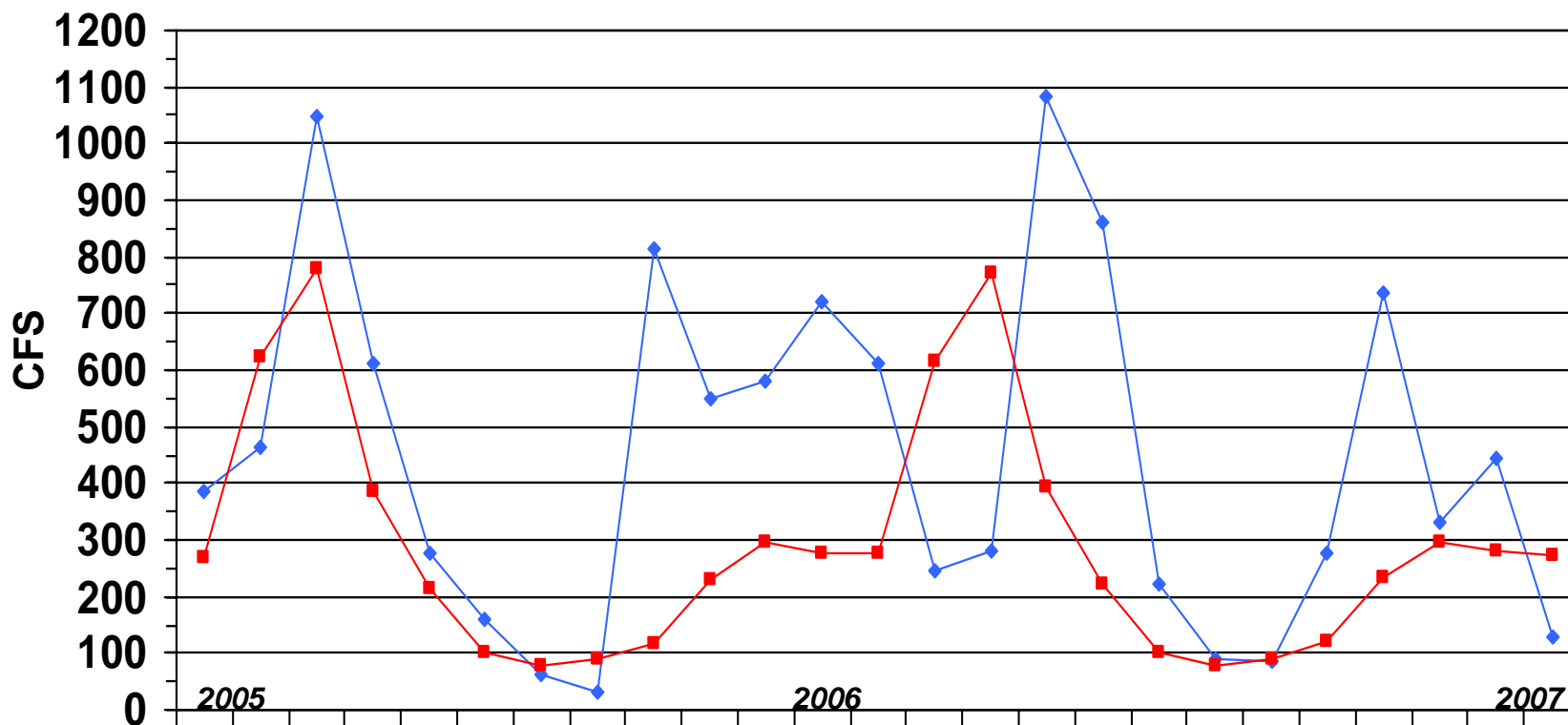
	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb
Monthly Mean Flow	368	477	857	685	415	209	29	18	923	638	639	700	555	217	252	876	982	201	146	73	419	935	462	477	100
Mean of Monthly Flows	301	603	696	355	195	93	70	70	139	264	337	288	304	598	690	363	206	95	71	70	143	274	338	290	301
% of Normal	123%	79%	123%	193%	213%	255%	41%	26%	664%	242%	190%	243%	183%	36%	37%	241%	477%	212%	206%	104%	293%	341%	137%	164%	33%

SOUHEGAN RIVER at MERRIMACK NH

Gage# 01094000



MONTHLY MEAN FLOW COMPARED TO MEAN OF MONTHLY FLOWS

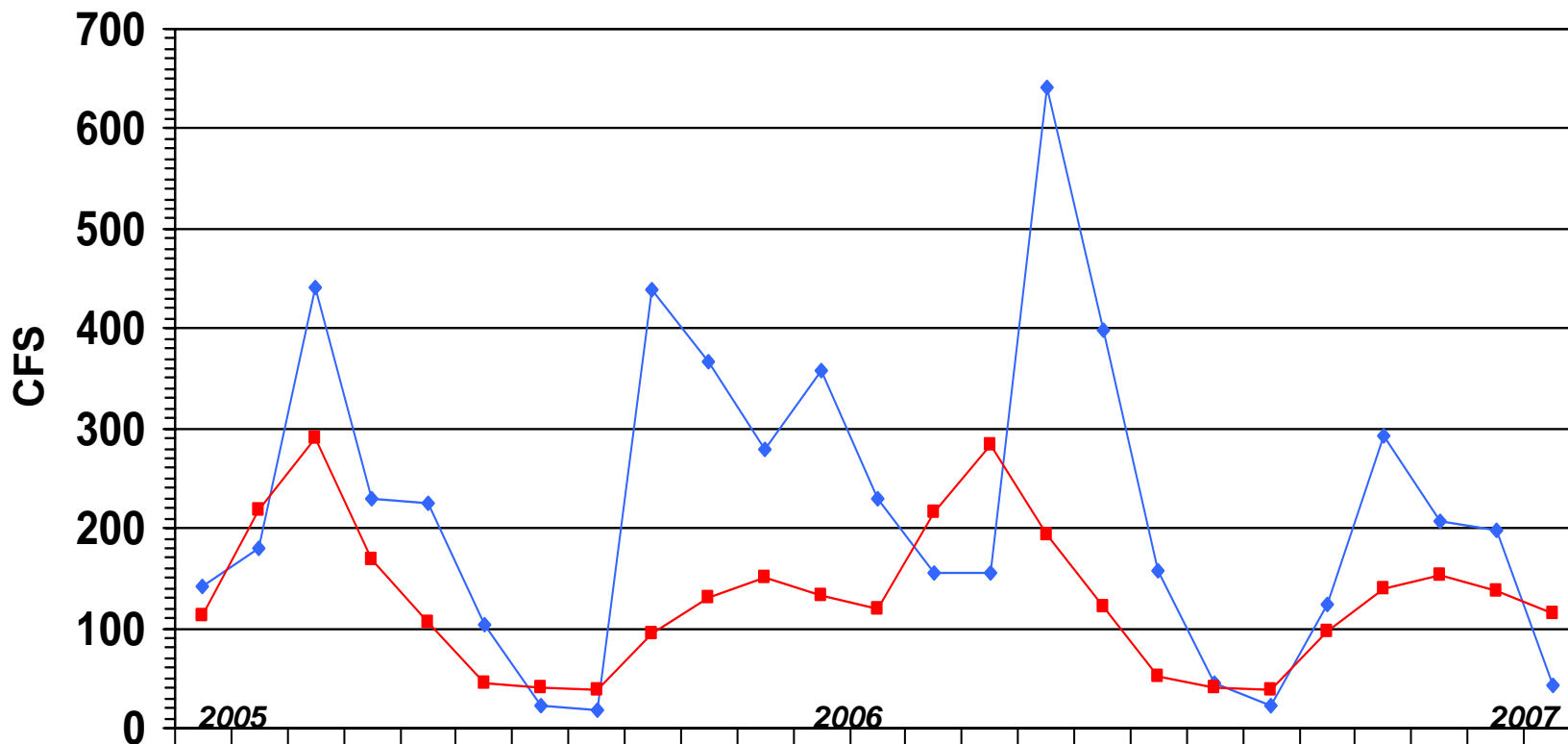


	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb
Monthly Mean Flow	386	464	1049	613	276	158	61	32	814	551	579	721	611	244	281	1085	860	223	90	84	278	738	330	446	130
Mean of Monthly Flows	270	622	780	385	215	101	78	88	118	228	296	276	275	616	773	395	224	103	78	88	120	235	296	279	273
% of Normal	143%	75%	134%	159%	128%	156%	78%	36%	690%	242%	196%	261%	222%	40%	35%	275%	384%	217%	115%	95%	232%	314%	111%	160%	48%

SOUCOOK RIVER at PEMBROKE ROAD near CONCORD NH, Gage# 01089100



MONTHLY MEAN FLOW COMPARED TO MEAN OF MONTHLY FLOWS

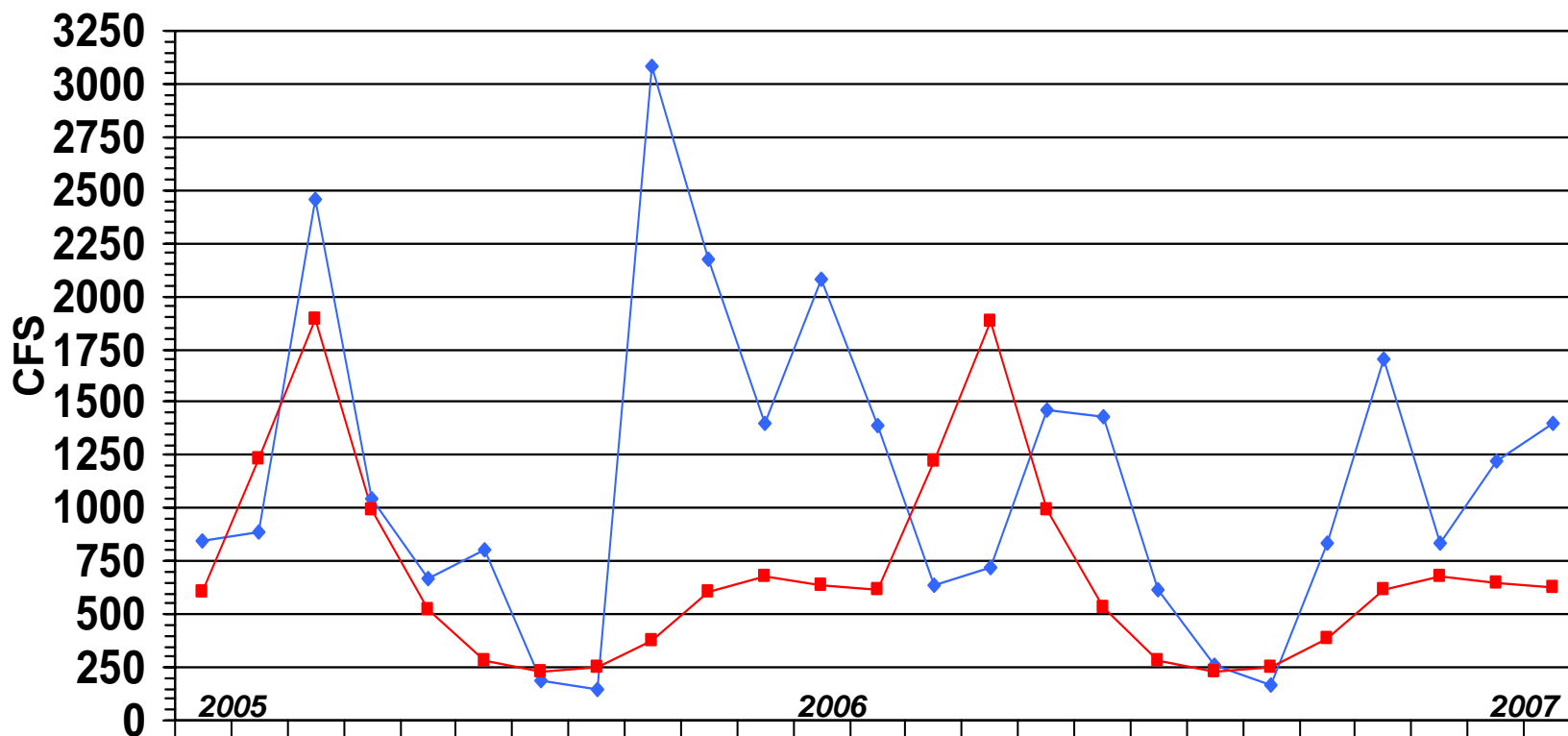


ASHUELOT RIVER at HINSDALE NH

Gage# 01161000



MONTHLY MEAN FLOW COMPARED TO MEAN OF MONTHLY FLOWS



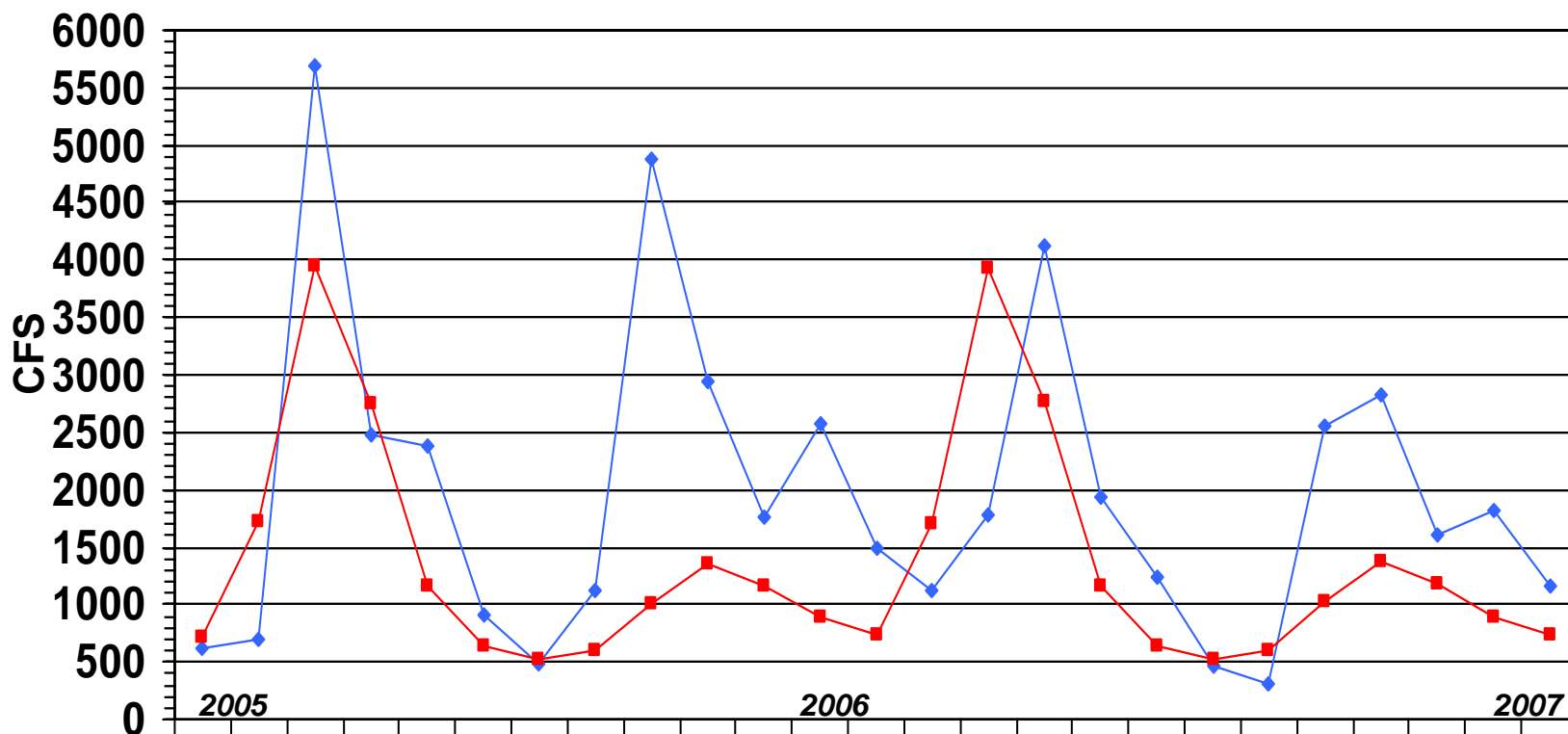
	2005												2006												2007											
	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb											
Monthly Mean Flow	850	890	2454	1048	671	802	190	145	3088	2171	1396	2082	1385	642	718	1459	1434	615	262	170	838	1702	833	1220	1404											
Mean of Monthly Flow s	610	1232	1888	991	524	279	230	247	378	610	683	640	618	1226	1876	996	534	283	230	247	383	621	684	646	626											
% of Normal	139%	72%	130%	106%	128%	287%	83%	59%	817%	356%	204%	325%	224%	52%	38%	146%	269%	217%	114%	69%	219%	274%	122%	189%	224%											

PEMIGEWASSET RIVER at PLYMOUTH NH

Gage# 01076500



MONTHLY MEAN FLOW COMPARED TO MEAN OF MONTHLY FLOWS



	2005												2006												2007			
	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb			
Monthly Mean Flow	614	702	5697	2472	2380	901	475	1114	4878	2948	1761	2578	1500	1118	1789	4130	1941	1235	471	311	2550	2833	1605	1816	1152			
Mean of Monthly Flow s	725	1718	3941	2754	1159	637	514	603	1002	1358	1167	886	733	1712	3920	2767	1167	643	514	600	1017	1372	1171	895	737			
% of Normal	85%	41%	145%	90%	205%	142%	92%	185%	487%	217%	151%	291%	205%	65%	46%	149%	166%	192%	92%	52%	251%	206%	137%	203%	156%			

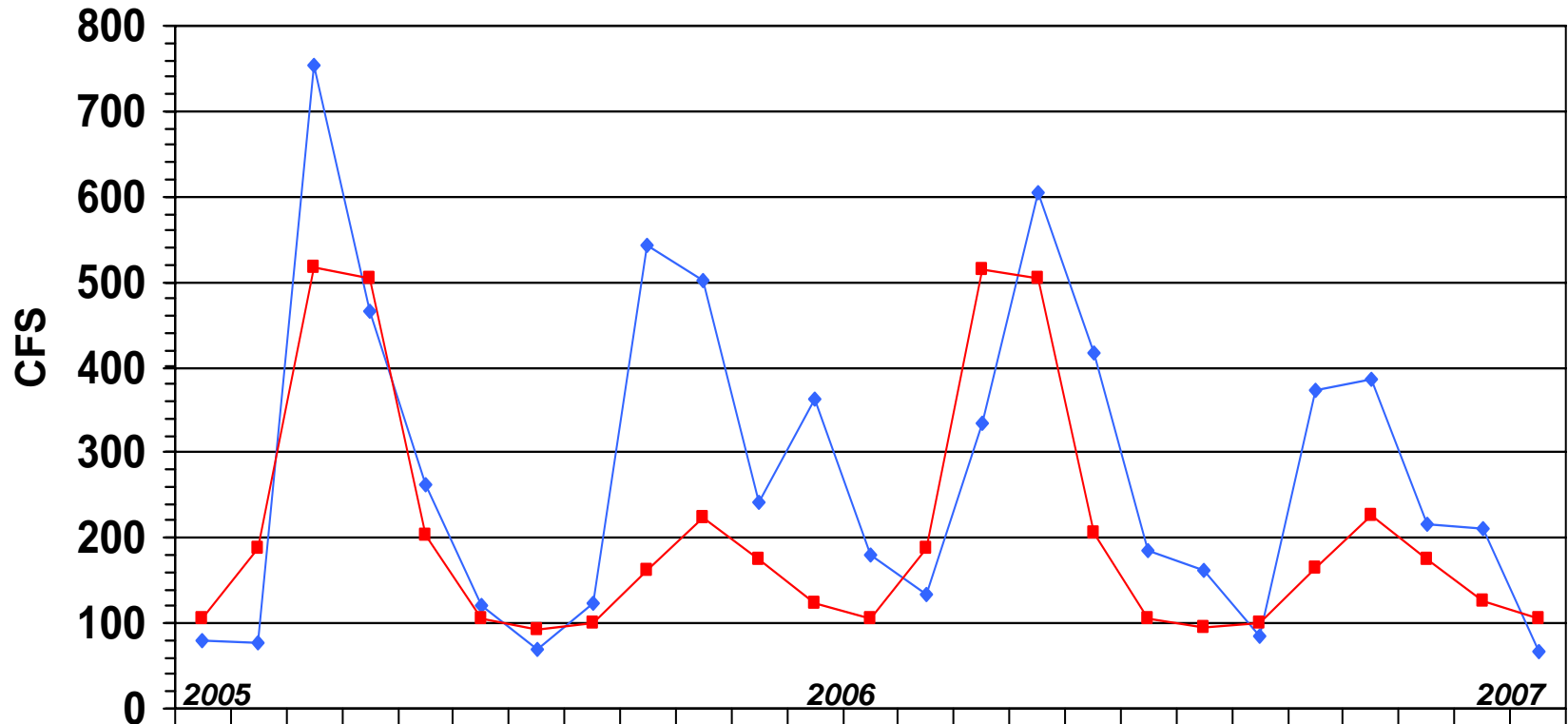
AMMONOOSUC RIVER at BETHLEHEM JUNCTION NH

Gage# 01137500



MONTHLY MEAN FLOW COMPARED TO MEAN OF MONTHLY FLOWS

This station replaces gage# 01137000 which was discontinued by DES at the end of Sept 2004



◆ Monthly Mean Flow	80	77	753	465	262	120	70	123	542	502	243	363	180	133	334	605	418	186	161	85	373	387	215	211	68
■ Mean of Monthly Flow s	105	188	516	503	204	105	93	100	162	225	175	123	106	187	514	504	207	106	94	100	165	227	176	125	105
% of Normal	76%	41%	146%	92%	128%	114%	75%	123%	335%	223%	139%	295%	170%	71%	65%	120%	202%	175%	171%	85%	227%	170%	122%	169%	65%

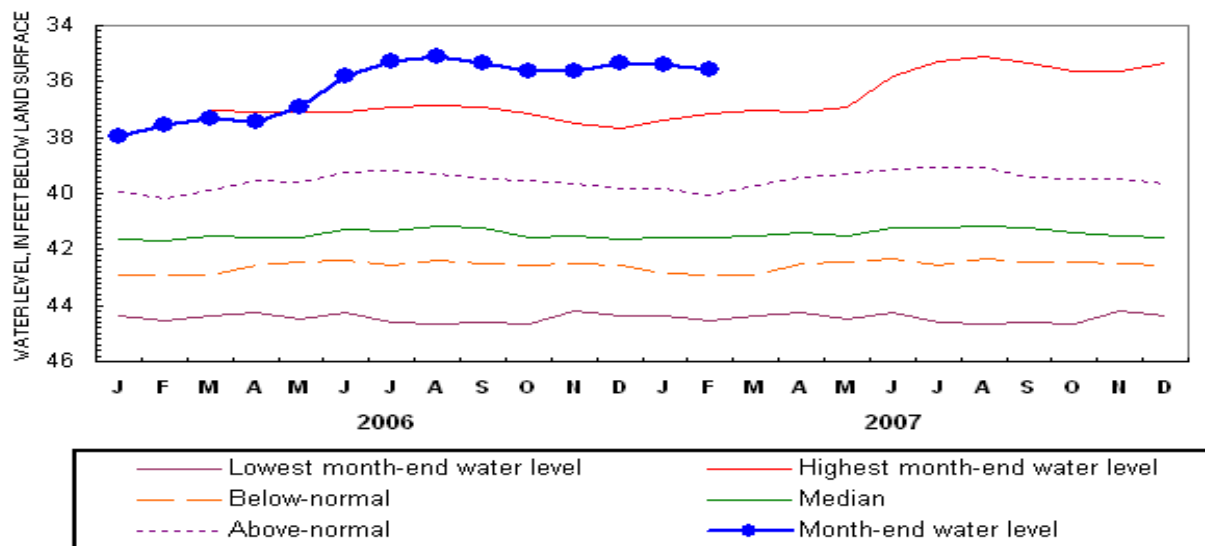
New Hampshire Groundwater Levels for February 2007



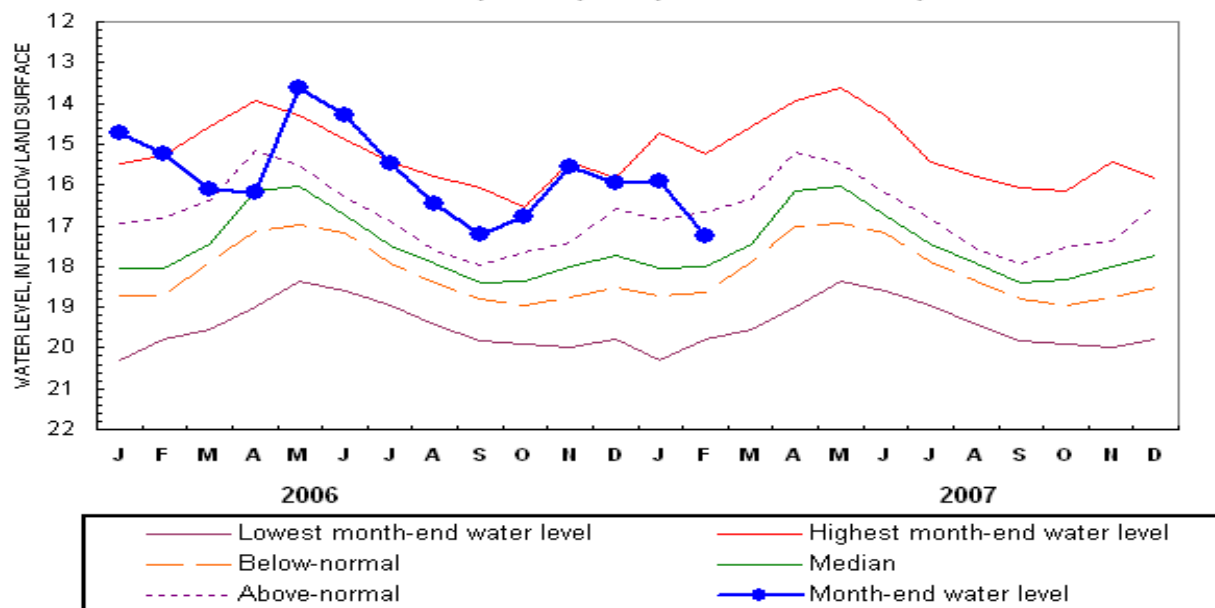
WELL	START OF WATER LEVEL BELOW		NET CHANGE		NET CHANGE		DEPARTURE FROM		PERCENT OF	
	RECORD	SURFACE DATUM (ft)	IN ONE MONTH (ft)	IN ONE YEAR (ft)	MEDIAN	RANGE (ft)	MONTHLY MEDIAN (FT)	RANGE	STATUS	
ALBANY 14	1995	6.87	-1.04	-1.16	6.87	0.75	+0.00	0.0	NORMAL	
ALBANY 15	1995	8.82	-0.88	-1.12	8.83	2.48	+0.01	0.4	NORMAL	
BARNSTEAD 10	1995	2.92	-0.24	-0.38	2.90	0.14	-0.02	-14.3	NORMAL	
CAMPTON 34	1988	13.26	-0.86	-0.85	13.06	1.19	-0.20	-16.8	NORMAL	
COLEBROOK 73	1995	----	----	----	7.47	----	----	----	----	
CONCORD 2	1963	35.56	-0.17	+1.98	41.60	4.46	+6.04	135.4	ABOVE NORMAL	
CONCORD 4	1966	17.26	-1.35	-2.02	18.01	2.77	+0.75	27.1	NORMAL	
DEERFIELD 46	1984	38.18	-0.31	-0.75	38.65	1.22	+0.47	38.5	ABOVE NORMAL	
ENFIELD 30	1990	5.18	-2.41	-2.61	7.23	4.66	+2.05	44.0	NORMAL	
ERROL 1	1966	13.8	+0.3	----	13.2	1.50	-0.6	-40.0	BELOW NORMAL	
FRANKLIN 1	1966	9.68	-0.33	-1.69	13.27	5.28	+3.59	68.0	ABOVE NORMAL	
GREENFIELD 75	1995	60.20	+0.10	-1.62	62.49	3.91	+2.29	58.6	ABOVE NORMAL	
HOOKSETT 5	1965	48.48	-0.96	-2.19	47.93	3.33	-0.55	-16.5	NORMAL	
KEENE 2	1963	3.71	-0.14	-0.71	3.18	1.41	-0.53	-37.6	NORMAL	
LANCASTER 1	1966	1.60	+0.10	----	1.50	0.99	-0.10	-10.1	NORMAL	
LEE 1	1953	30.86	-0.38	-0.39	31.12	1.17	+0.26	22.2	NORMAL	
LISBON 19	1990	13.41	-0.76	-1.02	12.92	0.88	-0.49	-55.7	NORMAL	
NASHUA 218	1964	27.34	-0.55	-0.96	28.22	1.84	+0.88	47.8	ABOVE NORMAL	
NEW DURHAM 53	1986	19.14	-0.38	-0.46	18.94	0.70	-0.20	-28.6	NORMAL	
NEW LONDON 1	1947	10.48	-2.72	-3.55	9.28	6.52	-1.20	-18.4	NORMAL	
NEWPORT 3	1995	6.44	-0.96	-1.49	5.80	0.86	-0.64	-74.4	BELOW NORMAL	
NEWPORT 6	1995	6.57	-0.98	-1.54	5.85	0.91	-0.72	-79.1	BELOW NORMAL	
OSSIPEE 38	1995	34.68	-0.34	-1.15	35.99	2.46	+1.31	53.3	ABOVE NORMAL	
SHELBURNE 2	1995	4.93	-0.44	-0.15	4.74	0.31	-0.19	-61.3	BELOW NORMAL	
WARNER 1	1965	29.79	-0.60	-2.59	30.78	3.58	+0.99	27.7	ABOVE NORMAL	

Source: USGS, NH DES

CONCORD 2 (CVW 2) NH (August 1963 - May 1965, August 1967 -)

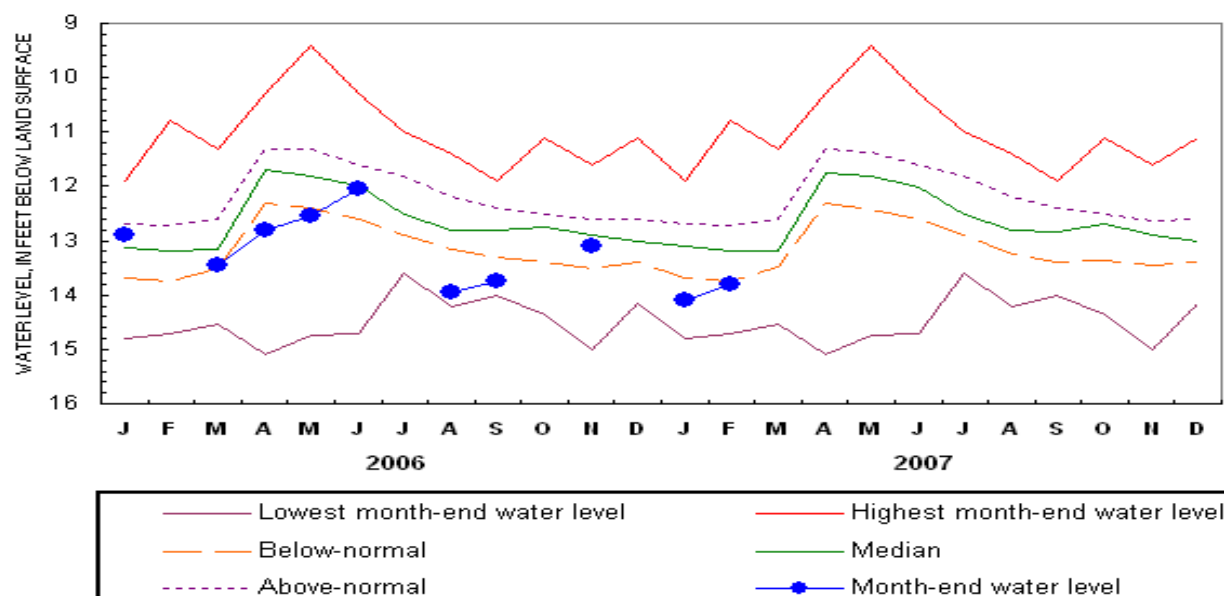


CONCORD 4 (CVW 4) NH (November 1966 -)

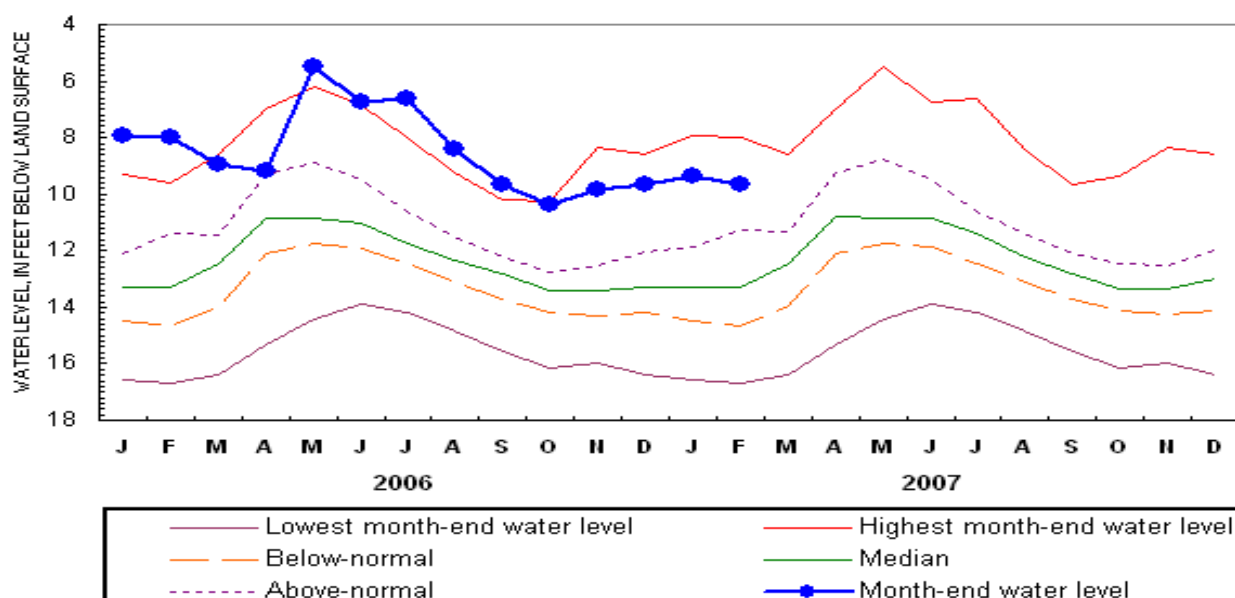


Highest and lowest month-end water levels are monthly extremes for the period of record
 Above-normal is the 75% quartile (25% of month-end water levels were higher)
 Below-normal is the 25% quartile (25% of month-end water levels were lower)
 Median is the 50% quartile (half of the month-end water levels were higher or lower)
 Water levels after September 2003 are provisional and subject to revision.

ERROL 1 (ETW 1) NH (November 1966 -)

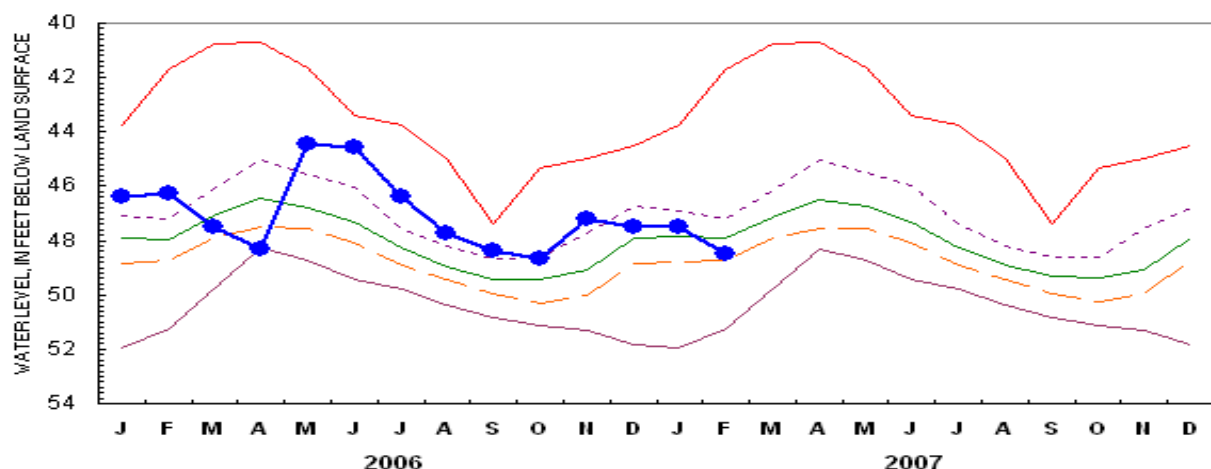


FRANKLIN 1 (FKW 1) NH (October 1966 -)



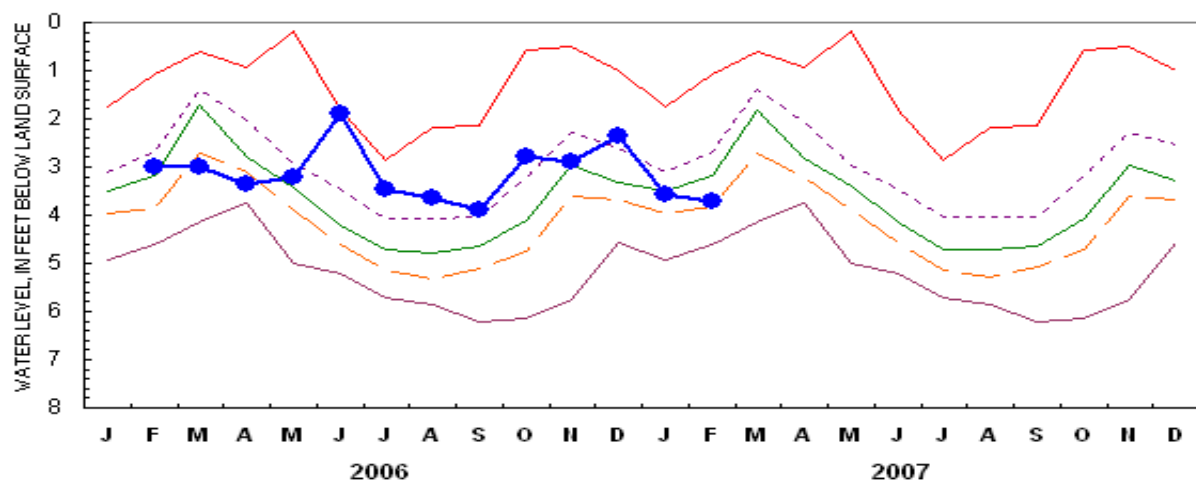
Highest and lowest month-end water levels are monthly extremes for the period of record
 Above-normal is the 75% quartile (25% of month-end water levels were higher)
 Below-normal is the 25% quartile (25% of month-end water levels were lower)
 Median is the 50% quartile (half of the month-end water levels were higher or lower)
 Water levels after September 2003 are provisional and subject to revision.

HOOKSETT 5 (HTW 5) NH (April 1965 -)



— Lowest month-end water level	— Highest month-end water level
- - Below-normal	- - Median
- - Above-normal	—●— Month-end water level

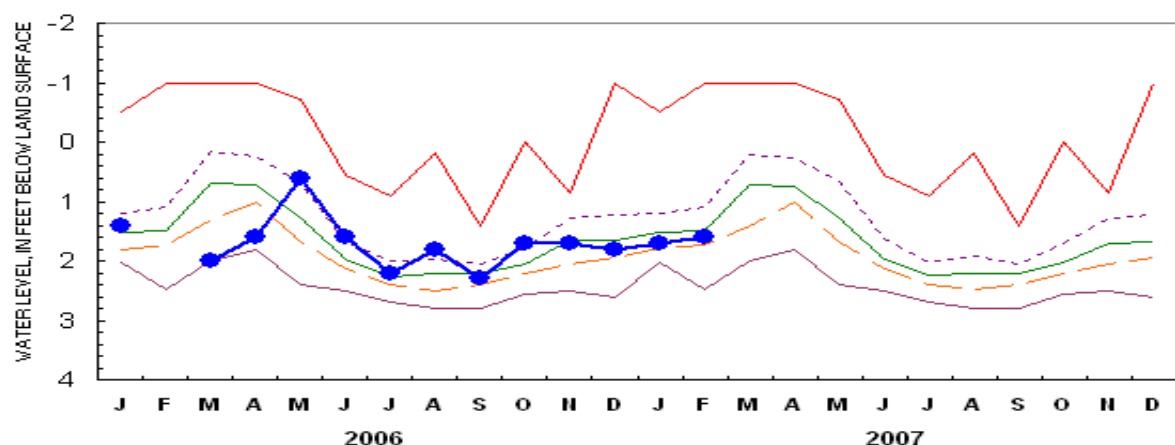
KEENE 2 (KEW 2) NH (August 1963 -)



— Lowest month-end water level	— Highest month-end water level
- - Below-normal	- - Median
- - Above-normal	—●— Month-end water level

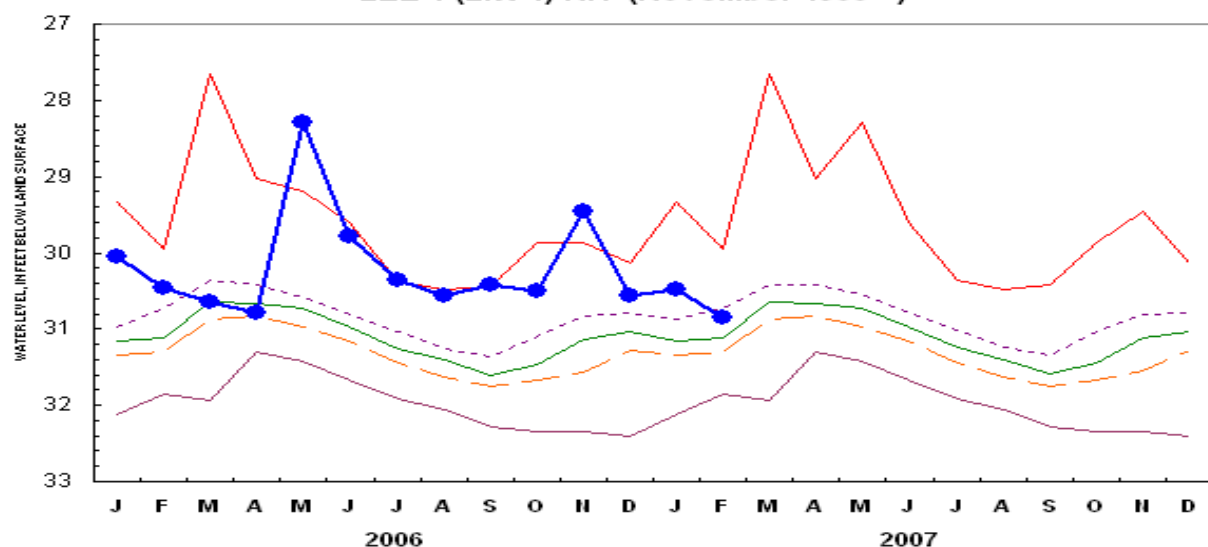
Highest and lowest month-end water levels are monthly extremes for the period of record
 Above-normal is the 75% quartile (25% of month-end water levels were higher)
 Below-normal is the 25% quartile (25% of month-end water levels were lower)
 Median is the 50% quartile (half of the month-end water levels were higher or lower)
 Water levels after September 2003 are provisional and subject to revision.

LANCASTER 1 (LCW 1) NH (November 1966 - May 1980, April 1981)



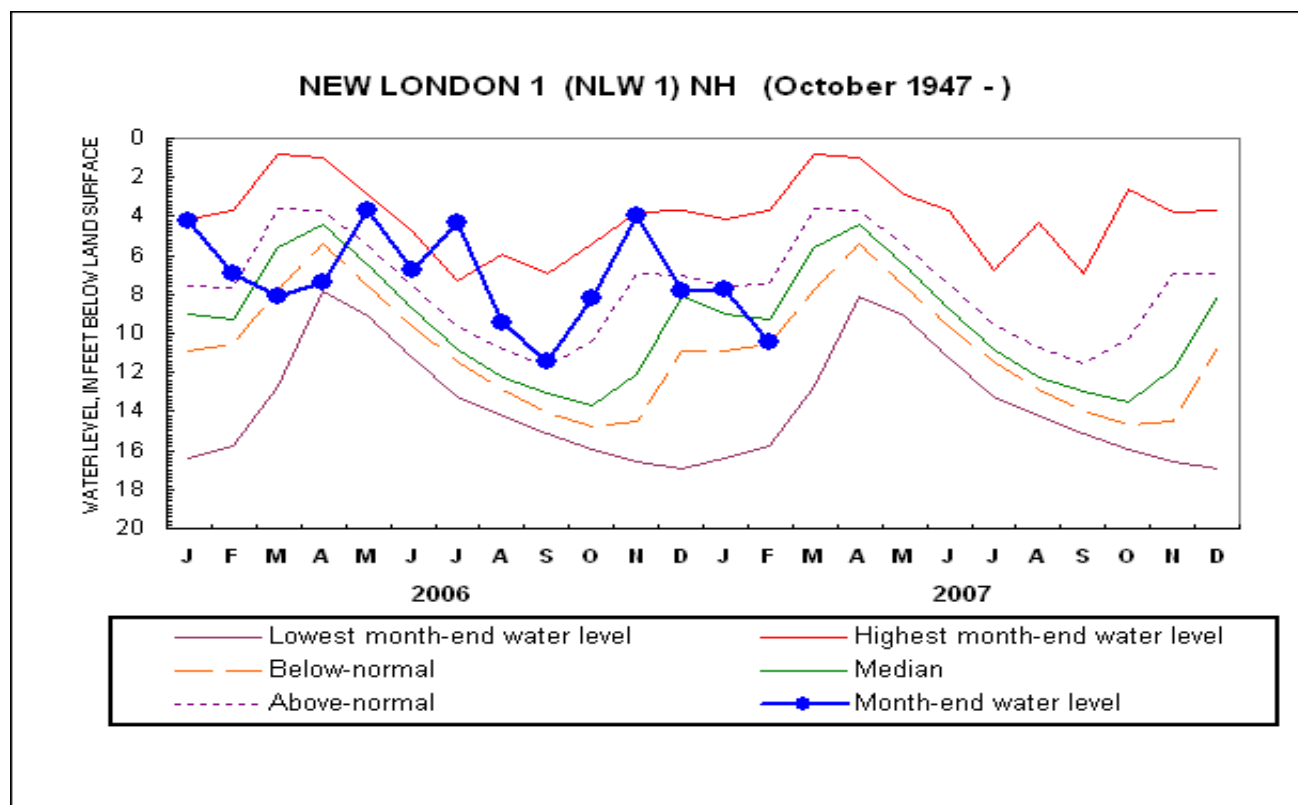
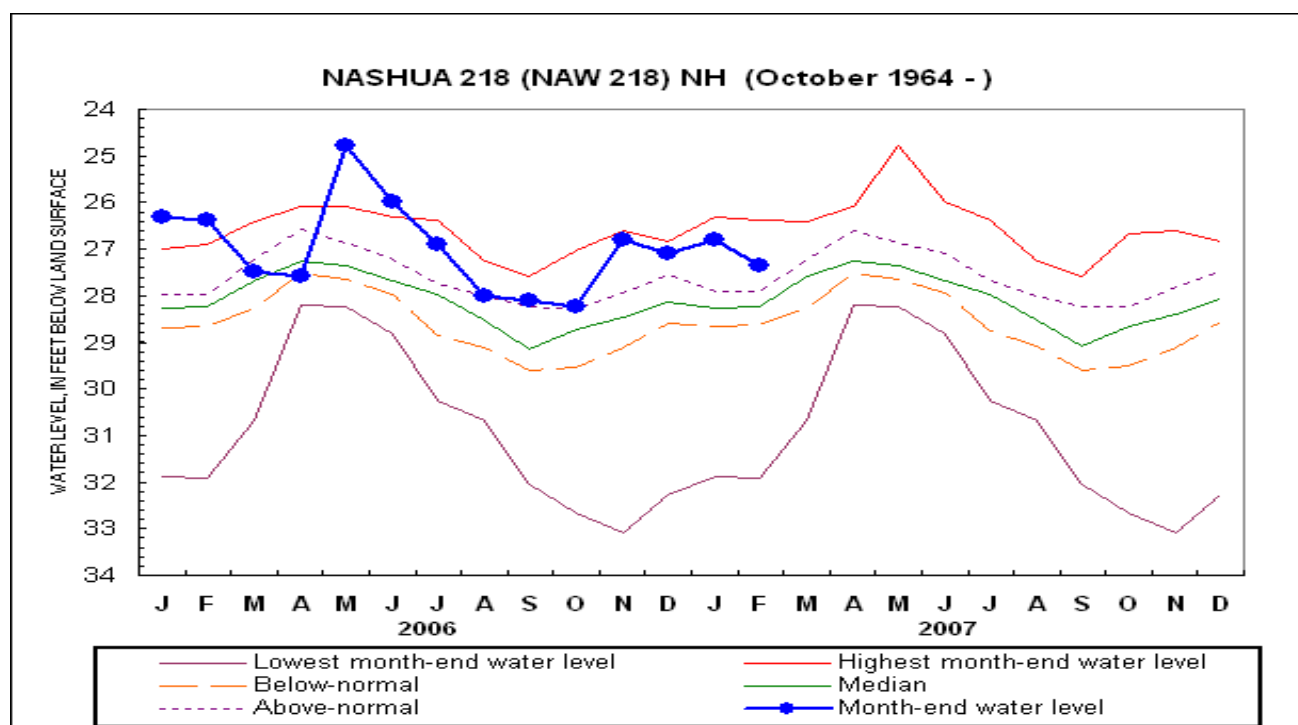
— Lowest month-end water level — Highest month-end water level
 - - Below-normal - - Median
 - - Above-normal —●— Month-end water level

LEE 1 (LIW 1) NH (November 1953 -)



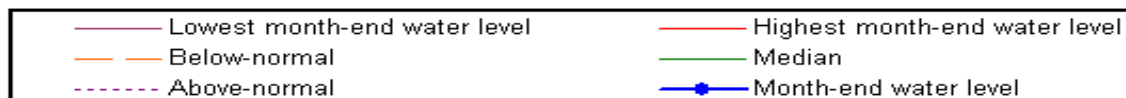
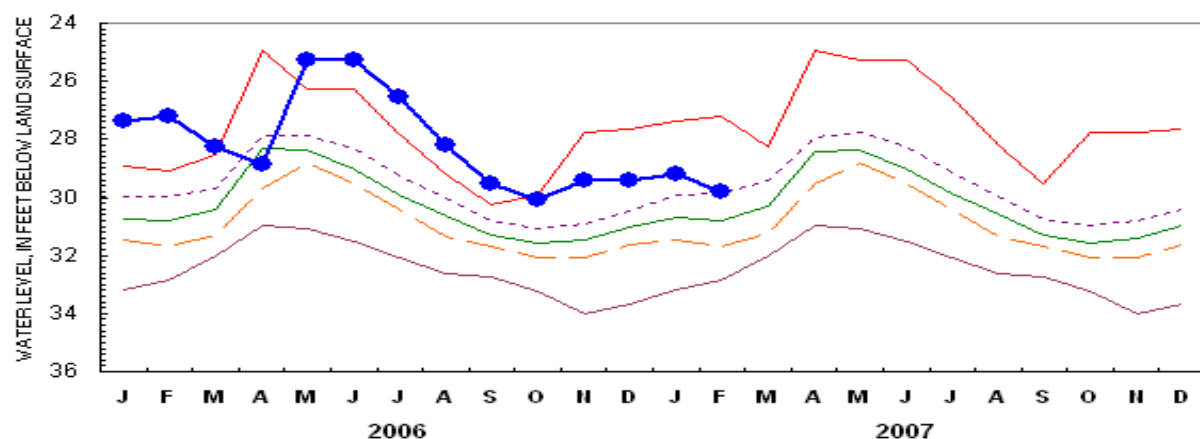
— Lowest month-end water level — Highest month-end water level
 - - Below-normal - - Median
 - - Above-normal —●— Month-end water level

Highest and lowest month-end water levels are monthly extremes for the period of record
 Above-normal is the 75% quartile (25% of month-end water levels were higher)
 Below-normal is the 25% quartile (25% of month-end water levels were lower)
 Median is the 50% quartile (half of the month-end water levels were higher or lower)
 Water levels after September 2003 are provisional and subject to revision.



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WARNER 1 (WCW 1) NH (December 1965 -)

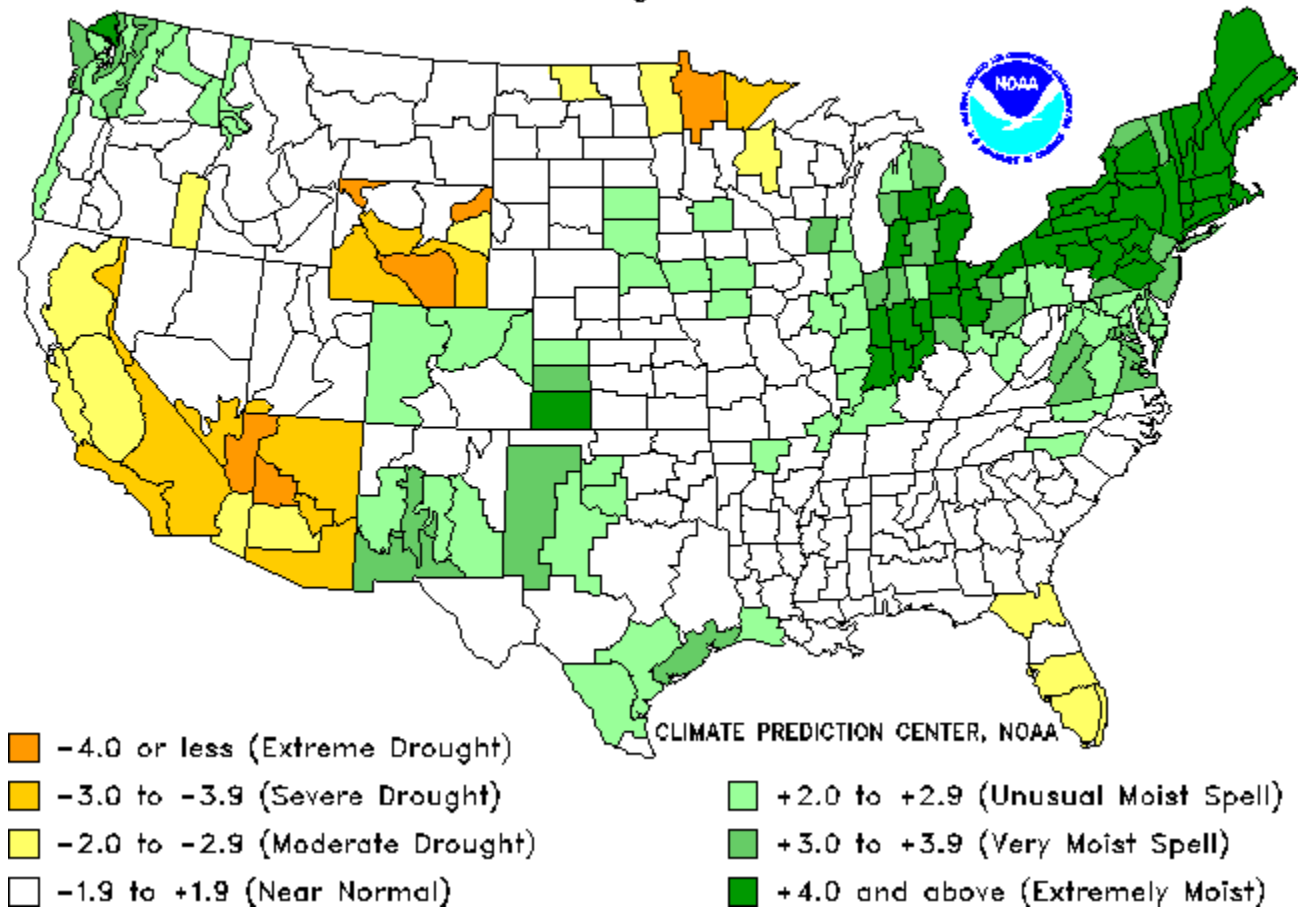


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Drought Severity Index by Division

Weekly Value for Period Ending 17 MAR 2007

Long Term Palmer



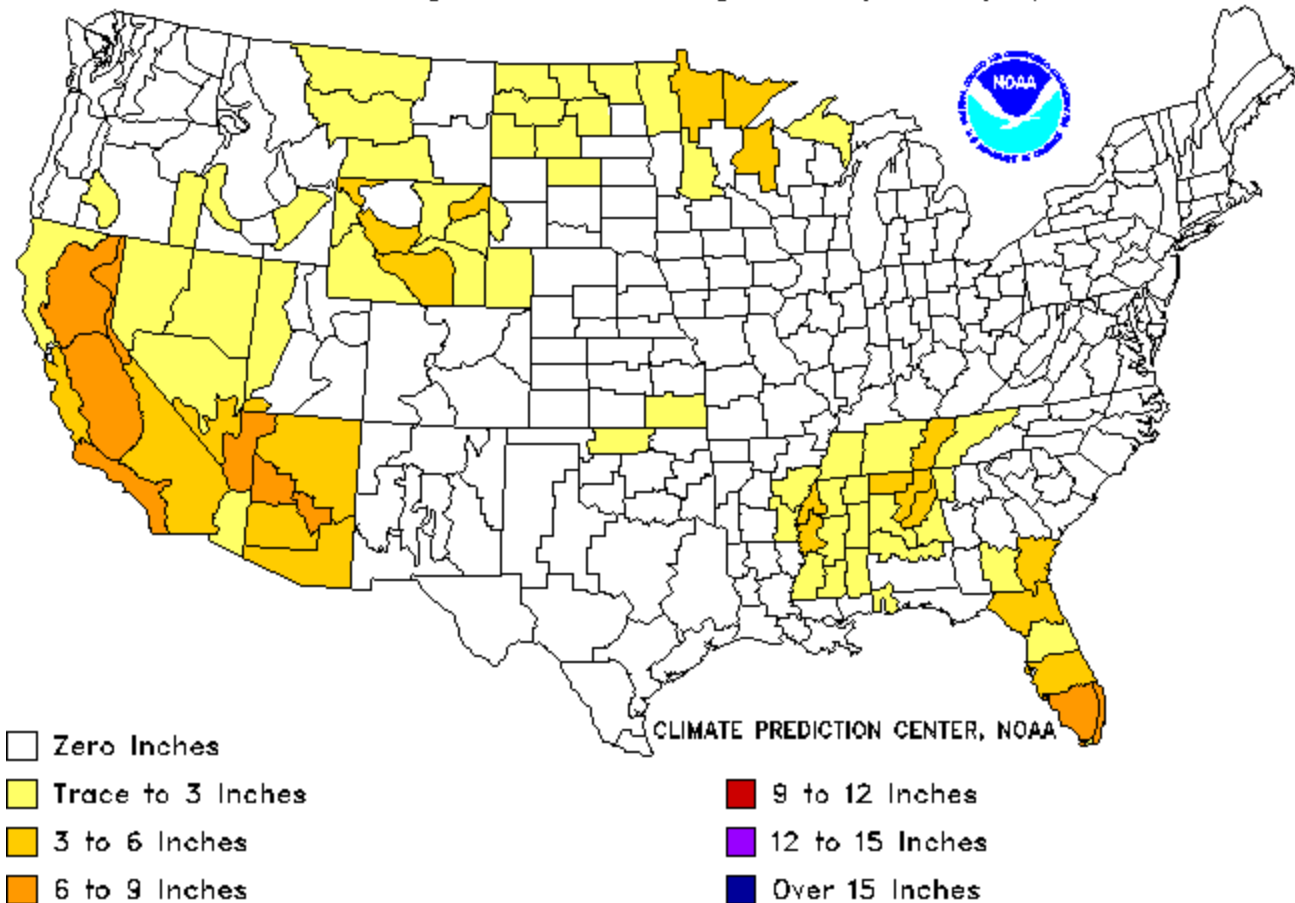
THE PALMER DROUGHT SEVERITY INDEX

The Palmer Index uses temperature and rainfall information in a formula to determine dryness. The advantage of the Palmer Index is that it is standardized to local climate.

Additional Precip. Needed (In.) to Bring PDI to -0.5

Weekly Value for Period Ending 17 MAR 2007

Long Term Palmer Drought Severity Index (PDI)



This is the amount of rainfall required in a week's time to bring the index back to zero inches required.